The Journal of

Membrane Biology

An international journal
for studies on the structure, function and genesis
of biomembranes

Volume 117 1990

Editorial Board

W.R. Loewenstein, Miami, Editor-in-Chief

Q. Al-Awqati, Columbia
G. Blobel, Rockefeller
D. Branton, Harvard
P. Cuatrecasas, Warner Lambert
J.M. Diamond, California, L.A.
D. Engelman, Yale
S. Fleischer, Vanderbilt
J.G. Forte, California, Berkeley
G. Guidotti, Harvard
J. Handler, Johns Hopkins
A. Helenius, Yale
L. Heppel, Cornell
W.L. Hubbell, California, L.A.
R.B. Kelly, California, S.F.
A. Klug, Cambridge
P. Läuger, Konstanz
S.E. Luria, MIT
E.A.C. MacRobbie, Cambridge
V.T. Marchesi, Yale
H.M. McConnell, Stanford
S. McLaughlin, SUNY, Stony Brook
C. Miller, Brandeis
H. Murer, Zurich
G.E. Palade, Yale
E. Racker, Cornell
H. Reuter, Bern
B. Sakmann, Max-Planck, Heidelberg
R.W. Schekman, California, Berkeley
S.G. Schultz, Texas
S.J. Singer, California, S.D.
C.L. Slayman, Yale
K.R. Spring, N.I.H.
C.F. Stevens, Salk Institute
W. Stoeckenius, California, S.F.
D. Urry, Alabama
H.H. Ussing, Copenhagen

D.J. Fritts, Assistant to the Editor

Springer International

The exclusive copyright for all languages and countries, including the right for photomechanical and any other reproductions, also in microform, is transferred to the publisher

The use of registered names, trademarks, etc. in this publication does not imply, even in the absence of a specific statement, that such names are exempt from the relevant protective laws and regulations and therefore free for general use.

Printed in West Germany

© 1990 by Springer-Verlag New York Inc.

Author Index

Bergh, C., Kelley, S.J., Dunham, P.B.: K-Cl Cotransport in LK Sheep Erythrocytes: Kinetics of Stimulation by Cell Swelling 177
Berteloot, A., *see* Wierzbicki, W., et al. 11
Burckhardt, G., *see* Simon, B.J. 141
Burns, A.L., *see* Pollard, H.B., et al. 101
Carmeliet, E., *see* Jorissen, M., et al. 123
Cassiman, J.-J., *see* Jorissen, M., et al. 123
Chan, Y.L., *see* Wang, T. 131
Cooper, K., Gates, P., Rae, J.L., Dewey, J.: Electrophysiology of Cultured Human Lens Epithelial Cells . . 285
Corbett, A.M., Krueger, B.K.: Isolation of Two Saxitoxin-Sensitive Sodium Channel Subtypes from Rat Brain with Distinct Biochemical and Functional Properties 163
Dewey, J., *see* Cooper, K., et al. 285
Dunham, P.B., *see* Bergh, C., et al. 177
Gates, P., *see* Cooper, K., et al. 285
Gupta, C.M., *see* Joshi, R. 233
Heuner, A., *see* Schwegler, J.S., et al. 243
Jørgensen, P.L., *see* Wiener, H., et al. 275
Jorissen, M., Vereecke, J., Carmeliet, E., Van den Berghe, H., Cassiman, J.-J.: Outward-Rectifying Chloride Channels in Cultured Adult and Fetal Human Nasal Epithelial Cells 123
Joshi, R., Gupta, C.M.: Sulfate Self-Exchange and Amino Acid Transport in Calcium-Loaded Human Erythrocytes 233
Jow, B., *see* Nelson, D.J., et al. 29, 45
Jow, F., *see* Nelson, D.J., et al. 29
Kelley, S.J., *see* Bergh, C., et al. 177
Klaerke, D.A., *see* Wiener, H., et al. 275
Krueger, B.K., *see* Corbett, A.M. 163
Krupka, R.M.: Expression of Substrate Specificity in Facilitated Transport Systems 69
Lacaz-Vieira, F., *see* Procopio, J. 57
Lang, F., *see* Völkl, H. 113
Lisanti, M.P., Rodriguez-Boulan, E., Saltiel, A.R.: Emerging Functional Roles for the Glycosyl-Phosphatidylinositol Membrane Protein Anchor (*topical review*) 1
Lowy, R.J., Spring, K.R.: Identification of Riboflavin Transport by MDCK Cells Using Quantitative Fluorescence Video Microscopy 91
Mechmann, S., *see* Pott, L. 189
Nelson, D.J., *see* Soliven, B. 263
Nelson, D.J., Jow, B., Jow, F.: Whole-Cell Currents in Macrophages: I. Human Monocyte-Derived Macrophages 29
Nelson, D.J., Jow, B., Popovich, K.J.: Whole-Cell Currents in Macrophages: II. Alveolar Macrophages . . 45
Peracchia, C.: Effects of Caffeine and Ryanodine on Low pH_i-Induced Changes in Gap Junction Conductance and Calcium Concentration in Crayfish Septate Axons 79
Pollard, H.B., Burns, A.L., Rojas, E.: Synexin (Annexin VII): A Cytosolic Calcium-Binding Protein which Promotes Membrane Fusion and Forms Calcium Channels in Artificial Bilayer and Natural Membranes (*topical review*) 101
Popovich, K.J., *see* Nelson, D.J., et al. 45
Pott, L., Mechmann, S.: Large-Conductance Ion Channel Measured by Whole-Cell Voltage Clamp in Single Cardiac Cells: Modulation by β-Adrenergic Stimulation and Inhibition by Octanol 189
Procopio, J., Lacaz-Vieira, F.: Roles of External and Cellular Cl^- Ions on the Activation of an Apical Electrodiffusional Cl^- Pathway in Toad Skin 57
Pulsudski, R., Rougier, O., Tourneur, Y.: Reversible Activation of the ATP-Dependent Potassium Current with Dialysis of Frog Atrial Cells by Micromolar Concentrations of GDP 223
Rae, J.L., *see* Cooper, K., et al. 285
Rodriguez-Boulan, E., *see* Lisanti, M.P., et al. 1
Rojas, E., *see* Pollard, H.B., et al. 101
Rougier, O., *see* Pulsudski, R., et al. 223
Roy, G., *see* Wierzbicki, W., et al. 11
Saltiel, A.R., *see* Lisanti, M.P., et al. 1
Schwegler, J.S., Steigner, W., Heuner, A., Silbernagl, S.: pH_i-Dependent Membrane Conductance of Proximal Tubule Cells in Culture (OK): Differential Effects on K^+- and Na^+-Conductive Channels 243
Sigel, E.: Use of *Xenopus* Oocytes for the Functional Expression of Plasma Membrane Proteins (*topical review*) 201
Silbernagl, S., *see* Schwegler, J.S., et al. 243
Simon, B.J., Burckhardt, G.: Characterization of Inside-Out Oriented H^+-ATPases in Cholate-Pretreated Renal Brush-Border Membrane Vesicles 141
Soliven, B., Nelson, D.J.: Beta-Adrenergic Modulation of K^+ Current in Human T Lymphocytes 263
Spring, K.R., *see* Lowy, R.J. 91
Steigner, W., *see* Schwegler, J.S., et al. 243
Tourneur, Y., *see* Pulsudski, R., et al. 223
Van den Berghe, H., *see* Jorissen, M., et al. 123
Vereecke, J., *see* Jorissen, M., et al. 123
Verkman, A.S., *see* Zhang, R. 253
Völkl, H., Lang, F.: Effect of Potassium on Cell Volume Regulation in Renal Straight Proximal Tubules . . 113
Wang, T., Chan, Y.L.: Time- and Dose-Dependent Effects of Protein Kinase C on Proximal Bicarbonate Transport 131
Wiener, H., Klaerke, D.A., Jørgensen, P.L.: Rabbit Distal Colon Epithelium: III. Ca^{2+}-Activated K^+ Channels in Basolateral Plasma Membrane Vesicles of Surface and Crypt Cells 275
Wierzbicki, W., Berteloot, A., Roy, G.: Presteady-State Kinetics and Carrier-Mediated Transport: A Theoretical Analysis 11
Yoda, A., Yoda, S.: CCCP Activation of the Reconstituted NaK-Pump 153
Yoda, S., *see* Yoda, A. 153
Zhang, R., Verkman, A.S.: Urea Transport in Freshly Isolated and Cultured Cells from Rat Inner Medullary Collecting Duct 253

Covered in *Current Contents, SCI, ASCA* and *ISI BIOMED*